

## ABSTRACT OF DISCLOSURE

An optical system is disclosed with which higher magnification can be easily achieved and aberrations can be favorably corrected, yet is compact. The optical system includes a plurality of optical surfaces including a first surface which has at least a reflective action, a second surface reflecting the light rays reflected by the first surface back toward the first surface, and a diffractive optical surface. The first surface reflects a central field-angle principal ray, which comes from the second surface and is again incident on the first surface, to the opposite side of the previous reflection with respect to a normal at a hit point of the central field-angle principal ray on the first surface.